OIPE

RAW SEQUENCE LISTING DATE: 11/09/2000 PATENT APPLICATION: US/09/695,786 TIME: 11:59:10

Input Set : A:\CR9981 US DIV Seq Listing.txt
Output Set: N:\CRF3\11092000\1695786.raw

## **ENTERED**

```
SEQUENCE LISTING
      3 (1) GENERAL INFORMATION:
             (i) APPLICANT: RAMESCH V. NAIR
      б
                             MARK S. PAYNE
                             DONALD E. TRIMBUR
                             FERNANDO VALLE
      8
            (ii) TITLE OF INVENTION: METHOD FOR THE PRODUCTION OF
     1.0
                                      GLYCEROL BY RECOMBINANT
                                      ORGANISMS
     12
           (iii) NUMBER OF SEQUENCES: 43
     14
            (iv) CORRESPONDENCE ADDRESS:
     16
                   (A) ADDRESSEE: GENENCOR INTERNATIONAL, INC.
     24
     25
                   (B) STREET: 4 CAMBRIDGE PLACE
                               1870 SOUTH WINTON ROAD
     26
                   (C) CITY: ROCHESTER
     27
                   (D) STATE: NEW YORK
     28
     29
                   (E) COUNTRY: U.S.A.
     30
                   (F) ZIP: 14618
             (V) COMPUTER READABLE FORM:
     32
                   (A) MEDIUM TYPE: DISKETTE, 3.5 INCH
     33
     34
                   (B) COMPUTER: IBM PC COMPATIBLE
     35
                   (C) OPERATING SYSTEM: MICROSOFT WINDOWS 95
                   (D) SOFTWARE: MICROSOFT WORD VERSION 7.0A
     36
            (VI) CURRENT APPLICATION DATA:
     38
C--> 39
                   (A) APPLICATION NUMBER: US/09/695,786
C--> 40
                   (B) FILING DATE: 25-Oct-2000
     46
                   (C) CLASSIFICATION:
           (vii) PRIOR APPLICATION DATA:
     43
                   (A) APPLICATION NUMBER: 60/030602
     44
     45
                   (B) FILING DATE: NOVEMBER 13, 1996
          (viii) ATTORNEY/AGENT INFORMATION:
                   (A) NAME: FLOYD, LINDA AXAMETHY
     49
                   (B) REGISTRATION NUMBER: 33,692
     50
                   (C) REFERENCE/DOCKET NUMBER: CR-9981-B
     5.1
     53
            (ix) TELECOMMUNICATION INFORMATION:
     54
                  (A) TELEPHONE: 302-892-8112
                   (B) TELEFAX: 302-773-0164
     55
     58
        (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     61
                  (A) LENGTH: 1380 base pairs
                  (B) TYPE: nucleic acid
     62
                  (C) STRANDEDNESS: single
     63
     64
                  (D) TOPOLOGY: Linear
            (ii) MOLECULE TYPE: DNA (genomic)
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
C--> 68
     70 CTTTAATTTT CTTTTATCTT ACTCTCCTAC ATAAGACATC AAGAAACAAT TGTATATTGT
                                                                               60
     72 ACACCCCCC CCTCCACAAA CACAAATATT GATAATATAA AGATGTCTGC TGCTGCTGAT
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74 AGATTAAACT TAACTTCCGG CCACTTGAAT GCTGGTAGAA AGAGAAGTTC CTCTTCTGTT
     76 TCTTTGAAGG CTGCCGAAAA GCCTTTCAAG GTTACTGTGA TTGGATCTGG TAACTGGGGT
                                                                         240
     78 ACTACTATTG CCAAGGTGGT TGCCGAAAAT TGTAAGGGAT ACCCAGAAGT TTTCGCTCCA
                                                                         300
     80 ATAGTACAAA TGTGGGTGTT CGAAGAAGAG ATCAATGGTG AAAAATTGAC TGAAATCATA
     82 AATACTAGAC ATCAAAACGT GAAATACTTG CCTGGCATCA CTCTACCCGA CAATTTGGTT
                                                                         420
     84 GCTAATCCAG ACTTGATTGA TTCAGTCAAG GATGTCGACA TCATCGTTTT CAACATTCCA
                                                                         480
     86 CATCAATTT TGCCCCGTAT CTGTAGCCAA TTGAAAGGTC ATGTTGATTC ACACGTCAGA
                                                                         540
     88 GCTATCTCCT GTCTAAAGGG TTTTGAAGTT GGTGCTAAAG GTGTCCAATT GCTATCCTCT
                                                                         600
     90 TACATCACTG AGGAACTAGG TATTCAATGT GGTGCTCTAT CTGGTGCTAA CATTGCCACC
                                                                         660
     92 GAAGTCGCTC AAGAACACTG GTCTGAAACA ACAGTTGCTT ACCACATTCC AAAGGATTTC
                                                                         720
     94 AGAGGCGAGG GCAAGGACGT CGACCATAAG GTTCTAAAGG CCTTGTTCCA CAGACCTTAC
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     96 TTCCACGTTA GTGTCATCGA AGATGTTGCT GGTATCTCCA TCTGTGGTGC TTTGAAGAAC
     98 GTTGTTGCCT TAGGTTGTGG TTTCGTCGAA GGTCTAGGCT GGGGTAACAA CGCTTCTGCT
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     100 GCCATCCAAA GAGTCGGTTT GGGTGAGATC ATCAGATTCG GTCAAATGTT TTTCCCAGAA
                                                                          960
     102 TCTAGAGAAG AAACATACTA CCAAGAGTCT GCTGGTGTTG CTGATTTGAT CACCACCTGC
                                                                         1020
     104 GCTGGTGGTA GAAACGTCAA GGTTGCTAGG CTAATGGCTA CTTCTGGTAA GGACGCCTGG
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     106 GAATGTGAAA AGGAGTTGTT GAATGGCCAA TCCGCTCAAG GTTTAATTAC CTGCAAAGAA
     108 GTTCACGAAT GGTTGGAAAC ATGTGGCTCT GTCGAAGACT TCCCATTATT TGAAGCCGTA
     110 TACCANATCG TTTACAACAA CTACCCAATG AAGAACCTGC CGGACATGAT TGAAGAATTA
                                                                         1260
                                                                        1320
     112 GATCTACATG AAGATTAGAT TTATTGGAGA AAGATAACAT ATCATACTTC CCCCACTTTT
     114 TTCGAGGCTC TTCTATATCA TATTCATAAA TTAGCATTAT GTCATTTCTC ATAACTACTT
    116 (2) INFORMATION FOR SEQ ID NO: 2:
    118
             (i) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 2946 base pairs
     119
    120
                  (B) TYPE: nucleic acid
                  (C) STRANDEDNESS: single
     121
                  (D) TOPOLOGY: linear
    122
            (ii) MOLECULE TYPE: DNA (genomic)
C--> 126
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
    128 GAATTCGAGC CTGAAGTGCT GATTACCTTC AGGTAGACTT CATCTTGACC CATCAACCCC
     130 AGCGTCAATC CTGCAAATAC ACCACCCAGC AGCACTAGGA TGATAGAGAT AATATAGTAC
                                                                          120
    1.32 GTGGTAACGC TTGCCTCATC ACCTACGCTA TGGCCGGAAT CGGCAACATC CCTAGAATTG
                                                                          180
    134 AGTACGTGTG ATCCGGATAA CAACGGCAGT GAATATATCT TCGGTATCGT AAAGATGTGA
    136 TATAAGATGA TGTATACCCA ATGAGGACCG CCTGATCGTG ACCTAGACCT TAGTGCCAAA
    138 AACGACATAT CTATTATAGT GGGGAGAGTT TCGTGCAAAT AACAGACGCA GCAGCAAGTA
                                                                          360
    140 ACTGTGACGA TATCAACTCT TTTTTTATTA TGTAATAAGC AAACAAGCAC GAATGGGGAA
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    142 AGCCTATGTG CAATCACCAA GGTCGTCCCT TTTTTCCCAT TTGCTAATTT AGAATTTAAA
    144 GAAACCAAAA GAATGAAGAA AGAAAACAAA TACTAGCCCT AACCCTGACT TCGTTTCTAT
    146 GATAATACCC TGCTTTAATG AACGGTATGC CCTAGGGTAT ATCTCACTCT GTACGTTACA
    148 AACTCCGGTT ATTTTATCGG AACATCCGAG CACCCGCGCC TTCCTCAACC CAGGCACCGC
                                                                          660
    720
    152 CAGCAATTCG GGAGGGCGAA AATAAAACTG GAGCAAGGAA TTACCATCAC CGTCACCATC
    154 ACCATCATAT CGCCTTAGCC TCTAGCCATA GCCATCATGC AAGCGTGTAT CTTCTAAGAT
    156 TCAGTCATCA TCATTACCGA GTTTGTTTTC CTTCACATGA TGAAGAAGGT TTGAGTATGC
                                                                          900
    158 TCGAAACAAT AAGACGACGA TGGCTCTGCC ATTGGTTATA TTACGCTTTT GCGGCGAGGT
                                                                          960
    160 GCCGATGGGT TGCTGAGGGG AAGAGTGTTT AGCTTACGGA CCTATTGCCA TTGTTATTCC
                                                                         1020
    162 GATTAATCTA TTGTTCAGCA GCTCTTCTCT ACCCTGTCAT TCTAGTATTT TTTTTTTTT
    1140
    166 TTTTCCTTCC ACTAGCTTT TTCCTTGATT TATCCTTGGG TTCTTCTTTC TACTCCTTTA
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	168	GATTTTTTT	TTATATATTA	ATTTTTAAGT	TTATGTATTT	TGGTAGATTC	AATTCTCTTT	1260	
	170	CCCTTTCCTT	TTCCTTCGCT	CCCCTTCCTT	ATCAATGCTT	GCTGTCAGAA	GATTAACAAG	1.320	
	172	ATACACATTC	CTTAAGCGAA	CGCATCCGGT	GTTATATACT	CGTCGTGCAT	TTTTAAAATA	1380	
	174	GCCTTCAAGA	TCTACTTTCC	TAAGAAGATC	ATTATTAÇAA	ACACAACTGC	ACTCAAAGAT	1.440	
	176	GACTCCTCAT	ACTAATATCA	AACAGCACAA	ACACTGTCAT	GAGGACCATC	CTATCAGAAG	1500	
	178	ATCGGACTCT	GCCGTGTCAA	TTGTACATTT	GAAACGTGCG	CCCTTCAAGG	TTACACTGAT	1560	
	180	TGGTTCTGGT	AACTGGGGGA	CCACCATCGC	CAAAGTCATT	GCGGAAAACA	CAGAATTGCA	1.620	
	182	TTCCCATATC	TTCGAGCCAG	AGGTGAGAAT	GTGGGTTTTT	GATGAAAAGA	TCGGCGACGA	1.680	
	184	AAATCTGACG	GATATCATAA	ATACAAGACA	CCAGAACGTT	AAATATCTAC	CCAATATTGA	1.740	
	186	CCTGCCCCAT	AATCTAGTGG	CCGATCCTGA	TCTTTTACAC	TCCATCAAGG	GTGCTGACAT	1800	
	188	CCTTGTTTTC	AACATCCCTC	ATCAATTTTT	ACCAAACATA	GTCAAACAAT	TGCAAGGCCA	1860	
	190	CGTGGCCCCT	CATGTAAGGG	CCATCTCGTG	TCTAAAAGGG	TTCGAGTTGG	GCTCCAAGGG	1920	
	192	TGTGCAATTG	CTATCCTCCT	ATGTTACTGA	TGAGTTAGGA	ATCCAATGTG	GCGCACTATC	1980	
	1.94	TGGTGCAAAC	TTGGCACCGG	AAGTGGCCAA	GGAGCATTGG	TCCGAAACCA	CCGTGGCTTA	2040	
	196	CCAACTACCA	AAGGATTATC	AAGGTGATGG	CAAGGATGTA	GATCATAAGA	TTTTGAAATT	2100	
	198	GCTGTTCCAC	AGACCTTACT	TCCACGTCAA	TGTCATCGAT	GATGTTGCTG	GTATATCCAT	2160	
	200	TGCCGGTGCC	TTGAAGAACG	TCGTGGCACT	TGCATGTGGT	TTCGTAGAAG	GTATGGGATG	2220	
	202	GGGTAACAAT	GCCTCCGCAG	CCATTCAAAG	GCTGGGTTTA	GGTGAAATTA	TCAAGTTCGG	2280	
	204	TAGAATGTTT	TTCCCAGAAT	CCAAAGTCGA	GACCTACTAT	CAAGAATCCG	CTGGTGTTGC	2340	
	206	AGATCTGATC	ACCACCTGCT	CAGGCGGTAG	AAACGTCAAG	GTTGCCACAT	ACATGGCCAA	2400	
	208	GACCGGTAAG	TCAGCCTTGG	AAGCAGAAAA	GGAATTGCTŤ	AACGGTCAAT	CCGCCCAAGG	2460	
	210	GATAATCACA	TGCAGAGAAG	TTCACGAGTG	GCTACAAACA	TGTGAGTTGA	CCCAAGAATT	2520	
	212	CCCAATTATT	CGAGGCAGTC	TACCAGATAG	TCTACAACAA	CGTCCGCATG	CAAGACCTAC	2580	
	214	CGGAGATGAT	TGAAGAGCTA	GACATCGATG	ACGAATAGAC	ACTCTCCCCC	CCCCTCCCCC	2640	
	216	TCTGATCTTT	CCTGTTGCCT	CTTTTTCCCC	CAACCAATTT	ATCATTATAC	ACAAGTTCTA	2700	
	218	CAACTACTAC	TAGTAACATT	ACTACAGTTA	TTATAATTT	CTATTCTCTT	TTTCTTTAAG	2760	
					ACATAACTAC			2820	
	222	TTTACA'TAT'C	ACATCACCGT	TAATGAAAGA	TACGACACCC	TGTACACTAA	CACAATTAAA	2880	
					GCCCTTAAAG			2940	
	226	CTGCAG						2946	
	228	(2) INFORMATION FOR SEQ ID NO: 3:							
	230	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3178 base pairs							
	231								
	232								
	233								
	234	(	(D) TOPOLOGY	7: linear					
	236	(ii) MC	DLECULE TYPE	E: DNA (geno	omic)				
C>	238	(xi) SI	EQUENCE DESC	CRIPTION: SI	EQ ID NO: 3	•			
	240	CTGCAGAACT	TCGTCTGCTC	TGTGCCCATC	CTCGCGGTTA	GAAAGAAGCT	GAATTGTTTC	60	
	242	ATGCGCAAGG	GCATCAGCGA	GTGACCAATA	ATCACTGCAC	TAATTCCTTT	TTAGCAACAC	120	
	244	ATACTTATAT	ACAGCACCAG	ACCTTATGTC	TTTTCTCTGC	TCCGATACGT	TATCCCACCC	180	
	246	AACTTTTATT	TCAGTTTTGG	CAGGGGAAAT	TTCACAACCC	CGCACGCTAA	AAATCGTATT	240	
	248	ТАЛАСТТААА	AGAGAACAGC	CACAAATAGG	GAACTTTGGT	CTAAACGAAG	GACTCTCCCT	300	
	250	CCCTTATCTT	GACCGTGCTA	TTGCCATCAC	TGCTACAAGA	CTAAATACGT	ACTAATATAT	360	
	252	G'I'TT'I'CGGTA	ACGAGAAGAA	GAGCTGCCGG	TGCAGCTGCT	GCCATGGCCA	CAGCCACGGG	420	
	254	GACGCTGTAC	TGGATGACTA	GCCAAGGTGA	TAGGCCGTTA	${\tt GTGCACAATG}$	ACCCGAGCTA	480	
	256	CATGGTGCAA	TTCCCCACCG	CCGCTCCACC	GGCAGGTCTC	TAGACGAGAC	CTGCTGGACC	540	
	258	GTCTGGACAA	GACGCATCAA	TTCGACGTGT	TGATCATCGG	TGGCGGGGCC	ACGGGGACAG	600	
	260	GATGTGCCCT	AGATGCTGCG	ACCAGGGGAC	TCAATGTGGC	CCTTGTTGAA	AAGGGGGATT	660	



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262 TTGCCTCGGG AACGTCGTCC AAATCTACCA AGATGATTCA CGGTGGGGTG CGGTACTTAG
264 AGAAGGCCTT CTGGGAGTTC TCCAAGGCAC AACTGGATCT GGTCATCGAG GCACTCAACG
266 AGCGTAAACA TCTTATCAAC ACTGCCCCTC ACCTGTGCAC GGTGCTACCA ATTCTGATCC
268 CCATCTACAG CACCTGGCAG GTCCCGTACA TCTATATGGG CTGTAAATTC TACGATTTCT
270 TTGGCGGTTC CCAAAACTTG AAAAAATCAT ACCTACTGTC CAAATCCGCC ACCGTGGAGA
272 AGGCTCCCAT GCTTACCACA GACAATTTAA AGGCCTCGCT TGTGTACCAT GATGGGTCCT
                                                                       1020
274 TTAACGACTC GCGTTTGAAC GCCACTTTAG CCATCACGGG TGTGGAGAAC GGCGCTACCG
276 TCTTGATCTA TGTCGAGGTA CAAAAATTGA TCAAAGACCC AACTTCTGGT AAGGTTATCG
                                                                       1140
278 GTGCCGAGGC CCGGGACGTT GAGACTAATG AGCTTGTCAG AATCAACGCT AAATGTGTGG
                                                                       1200
280 TCAATGCCAC GGGCCCATAC AGTGACGCCA TTTTGCAAAT GGACCGCAAC CCATCCGGTC
282 TGCCGGACTC CCCGCTAAAC GACAACTCCA AGATCAAGTC GACTTTCAAT CAAATCTCCG
284 TCATGGACCC GAAAATGGTC ATCCCATCTA TTGGCGTTCA CATCGTATTG CCCTCTTTTT
286 ACTCCCCGAA GGATATGGGT TTGTTGGACG TCAGAACCTC TGATGGCAGA GTGATGTTCT
288 TTTTACCTTG GCAGGGCAAA GTCCTTGCCG GCACCACAGA CATCCCACTA AAGCAAGTCC
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290 CAGAAAACCC TATGCCTACA GAGGCTGATA TTCAAGATAT CTTGAAAGAA CTACAGCACT
292 ATATCGAATT CCCCGTGAAA AGAGAAGACG TGCTAAGTGC ATGGGCTGGT GTCAGACCTT
                                                                       1620
294 TGGTCAGAGA TCCACGTACA ATCCCCGCAG ACGGGAAGAA GGGCTCTGCC ACTCAGGGCG
296 TGGTAAGATC CCACTTCTTG TTCACTTCGG ATAATGGCCT AATTACTATT GCAGGTGGTA
                                                                       1740
298 AATGGACTAC TTACAGACAA ATGGCTGAGG AAACAGTCGA CAAAGTTGTC GAAGTTGGCG
300 GATTCCACAA CCTGAAACCT TGTCACACAA GAGATATTAA GCTTGCTGGT GCAGAAGAAT
302 GGACGCAAAA CTATGTGGCT TTATTGGCTC AAAACTACCA TTTATCATCA AAAATGTCCA
                                                                       1920
304 ACTACTTGGT TCAAAACTAC GGAACCCGTT CCTCTATCAT TTGCGAATTT TTCAAAGAAT
                                                                       1980
306 CCATGGAAAA TAAACTGCCT TTGTCCTTAG CCGACAAGGA AAATAACGTA ATCTACTCTA
                                                                       2040
308 GCGAGGAGAA CAACTTGGTC AATTTTGATA CTTTCAGATA TCCATTCACA ATCGGTGAGT
310 TANAGTATIC CATGCAGTAC GAATATIGTA GAACTCCCTT GGACTICCTT TIAGAAGAA
                                                                       2160
312 CAAGATTCGC CTTCTTGGAC GCCAAGGAAG CTTTGAATGC CGTGCATGCC ACCGTCAAAG
314 TTATGGGTGA TGAGTTCAAT TGGTCGGAGA AAAAGAGGCA GTGGGAACTT GAAAAAACTG
                                                                       2280
316 TGAACTTCAT CCAAGGACGT TTCGGTGTCT AAATCGATCA TGATAGTTAA GGGTGACAAA
318 GATAACATTC ACAAGAGTAA TAATAATGGT AATGATGATA ATAATAATAA TGATAGTAAT
320 AACAATAATA ATAATGGTGG TAATGGCAAT GAAATCGCTA TTATTACCTA TTTTCCTTAA
                                                                       2460
322 TGGAAGAGTT AAAGTAAACT AAAAAAACTA CAAAAATATA TGAAGAAAAA AAAAAAAAGA
324 GGTAATAGAC TCTACTACTA CAATTGATCT TCAAATTATG ACCTTCCTAG TGTTTATATT
326 CTATTTCCAA TACATAATAT AATCTATATA ATCATTGCTG GTAGACTTCC GTTTTAATAT
328 CGTTTTAATT ATCCCCTTTA TCTCTAGTCT AGTTTTATCA TAAAATATAG AAACACTAAA
330 TAATATTCTT CAAACGGTCC TGGTGCATAC GCAATACATA TTTATGGTGC AAAAAAAAA
332 ATGGAAAATT TTGCTAGTCA TAAACCCTTT CATAAACAA TACGTAGACA TCGCTACTTG
334 AAATTTTCAA GTTTTTATCA GATCCATGTT TCCTATCTGC CTTGACAACC TCATCGTCGA
336 AATAGTACCA TTTAGAACGC CCAATATTCA CATTGTGTTC AAGGTCTTTA TTCACCAGTG
                                                                       3000
338 ACGTGTAATG GCCATGATTA ATGTGCCTGT ATGGTTAACC ACTCCAAATA GCTTATATTT
340 CATAGTOTCA TTGTTTTCA ATATATGTT TAGTATCAAT GCATATGTTA CGACGGTGTT
                                                                       3060
342 ATTTTTCTTG GTCAAATCGT AATAAAATCT CGATAAATGG ATGACTAAGA TTTTTGGTAA
344 ACTTACAAAA TTTATCGTTT TCACTGTTGT CAATTTTTTG TTCTTGTAAT CACTCGAG
                                                                       31.78
346 (2) INFORMATION FOR SEQ ID NO: 4:
348
         (i) SEQUENCE CHARACTERISTICS:
349
              (A) LENGTH: 816 base pairs
350
              (B) TYPE: nucleic acid
351
              (C) STRANDEDNESS: single
352
              (D) TOPOLOGY: Linear
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(ii) MOLECULE TYPE: DNA (genomic)



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	256	(wi) CHOULENGE DESCRIPTION, ORD ID NO. 4.								
C>		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: ATGAAACGTT TCAATGTTTT AAAATATATC AGAACAACAA AAGCAAATAT ACAAACCATC	60							
		GCAATGCCTT TGACCACAAA ACCTTTATCT TTGAAAATCA ACGCCGCTCT ATTCGATGTT	120							
		GACGGTACCA TCATCATCTC TCAACCAGCC ATTGCTGCTT TCTGGAGAGA TTTCGGTAAA	180							
		GACAAGCCTT ACTTCGATGC CGAACACGTT ATTCACATCT CTCACGGTTG GAGAACTTAC	240							
		GATGCCATTG CCAAGTTCGC TCCAGACTTT GCTGATGAAG AATACGTTAA CAAGCTAGAA	300							
		GGTGAAATCC CAGAAAAGTA CGGTGAACAC TCCATCGAAG TTCCAGGTGC TGTCAAGTTG	360							
		TGTAATGCTT TGAACGCCTT GCCAAAGGAA AAATGGGCTG TCGCCACCTC TGGTACCCGT	420							
		GACATGGCCA AGAAATGGTT CGACATTTTG AAGATCAAGA GACCAGAATA CTTCATCACC	480							
	374	GCCAATGATG TCAAGCAAGG TAAGCCTCAC CCAGAACCAT ACTTAAAGGG TAGAAACGGT	540							
	376	TTGGGTTTCC CAATTAATGA ACAAGACCCA TCCAAATCTA AGGTTGTTGT CTTTGAAGAC	600							
	378	GCACCAGCTG GTATTGCTGC TGGTAAGGCT GCTGGCTGTA AAATCGTTGG TATTGCTACC	660							
	380	ACTITICGATT TGGACTICTT GAAGGAAAAG GGTTGTGACA TCATTGTCAA GAACCACGAA	720							
	382	TCTATCAGAG TCGGTGAATA CAACGCTGAA ACCGATGAAG TCGAATTGAT CTTTGATGAC	780							
	384	TACTTATACG CTAAGGATGA CTTGTTGAAA TGGTAA	816							
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	388	(i) SEQUENCE CHARACTERISTICS:								
	389	(A) LENGTH: 753 base pairs								
	390									
	391	(C) STRANDEDNESS: single								
	392	(D) TOPOLOGY: linear								
	394	(i.i) MOLECULE TYPE: DNA (genomic)								
C>		. (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5: ATGGGATTGA CTACTAAACC TCTATCTTTG AAAGTTAACG CCGCTTTGTT CGACGTCGAC	60							
		GGTACCATTA TCATCTCTCA ACCAGCCATT GCTGCATTCT GGAGGGGATTT CGGTAAGGAC	120							
		AAACCTTATT TCGATGCTGA ACACGTTATC CAAGTCTCGC ATGGTTGGAG AACGTTTGAT	180							
		GCCATTGCTA ACTTCGCTCC AGACTTTGCC AATGAAGAGT ATGTTAACAA ATTAGAAGCT	240							
		GANATICCGG TCAAGTACGG TGAAAAATCC ATTGAAGTCC CAGGTGCAGT TAAGCTGTGC	300							
		AACGCTTTGA ACGCTCTACC AAAAGAGAAA TGGGCTGTGG CAACTTCCGG TACCCCTGAT	360							
		ATGGCACAAA AATGGTTCGA GCATCTGGGA ATCAGGAGAC CAAAGTACTT CATTACCGCT	420							
	412	AATGATGTCA AACAGGGTAA GCCTCATCCA GAACCATATC TGAAGGGCAG GAATGGCTTA	480							
	414	GGATATCCGA TCAATGAGCA AGACCCTTCC AAATCTAAGG TAGTAGTATT TGAAGACGCT	540							
	41.6	CCAGCAGGTA TTGCCGCCGG AAAAGCCGCC GGTTGTAAGA TCATTGGTAT TGCCACTACT	600							
	418	TTCGACTTGG ACTTCCTAAA GGAAAAAGGC TGTGACATCA TTGTCAAAAA CCACGAATCC	660							
	420	ATCAGAGTTG GCGGCTACAA TGCCGAAACA GACGAAGTTG AATTCATTTT TGACGACTAC	720							
	422	TTATATGCTA AGGACGATCT GTTGAAATGC TAA	753							
		(2) INFORMATION FOR SEQ ID NO: 6:								
	426	(i) SEQUENCE CHARACTERTSTICS:								
	427	(A) LENGTH: 2520 base pairs								
	428	(B) TYPE: nucleic acid								
	429	(C) STRANDEDNESS: single								
	430	(D) TOPOLOGY: linear								
	432	(ii) MOLECULE TYPE: DNA (genomic)								
C>		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:								
		TGTATTGGCC ACGATAACCA CCCTTTGTAT ACTGTTTTTG TTTTCACAT GGTAAATAAC	120							
		GACTTTTATT AAACAACGTA TGTAAAAACA TAACAAGAAT CTACCCATAC AGGCCATTTC GTAATTCTTC TCTTCTAATT GGAGTAAAAC CATCAATTAA AGGGTCTGGA GTAGCATAGT	120 180							
		GAGGGGCTGA CTGCATTGAC AAAAAAATTG AAAAAAAAAA	240							
		AGACAGCCAA GACTITTAGA ACGGATAAGG TGTAATAAAA TGTGGGGGGA TGCCTGTTCT	300							
	444	AGACAGCCAA GACTITIAGA ACGGATAAGG TGTAATAAAA TGTGGGGGA TGCCTGTTCT	300							



Input Set : A:\CR9981 US DIV Seq Listing.txt
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L:39 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:40 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:] L:68 M:220 C: Keyword misspelled or invalid format, {(xi) SEQUENCE DESCRIPTION: SEQ ID NO:] L:126 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:238 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
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